PATENT
Docket No.: **19226/2181 (R-5766)**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) :	Mollendorf et al.	)	Examiner: Unknown
Serial No. :	10/645,726	)	Art Unit: 1775
Cnfrm. No. :	8224	)	
Filed :	August 21, 2003	)	
For :	PROCESS FOR ENHANCING MATERIAL PROPERTIES AND MATERIALS SO ENHANCED	)	

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97-1.98

Mail Stop: Non-Fee Amendment
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Alexandria, VA 22313-1450

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Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the enclosed references listed on the attached PTO-1449 form.

Pursuant to 37 CFR § 1.97(b)(3), no fee is required. Should it be determined that a fee is required, the Commissioner is authorized to charge any additional fee to Deposit Account No. 14-1138.

Respectfully submitted,

Date: April 28, 2004

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April 28, 2004	Jo Ann Whalen
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known	
Application Number	10/645,726
Filing Date	August 21, 2003
First Named Inventor	Joseph C. Mollendorf
Art Unit	1775
Examiner Name	Unknown
Attorney Docket Number	19226/2181 (R-5766)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number - Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-3,660,849	05/09/1972	Jonnes et al.	
	2	US-3,856,721	12/24/74	Fritschel	
	3	US-4,077,922	03/07/1978	Farrissey, Jr. et al.	
	4	US-4,252,378	02/24/81	DeBolt et al.	
	5	US-4,276,341	06/30/1981	Tanaka	
	6	US-5,120,385	06/09/1992	Takahashi et al.	
	7	US-5,569,513	10/29/1996	Fidler et al.	
	8	US-5,888,642	03/30/99	Meteer et al.	
	9	US-6,284,809 B1	09/04/01	Plummer et al.	
	10	US-6,319,599	11/20/2001	Buckley	
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	12	US-6,389,865 B1	05/21/02	Easterbrook	

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Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	13	Dow Corning, Product Information Sheet for Silicone Sealants: Dow Corning® 756 Silicone Building Sealant-HP, 3 pages	
	14	Herrmann et al., "Aerogels: The Leading Edge in Thermal Insulation," *H & V Engineer* 68(725):8-11 (1995)	
	15	Lu et al., "Thermal Transport in Organic and Opacified Silica Monolithic Aerogels," *Journal of Non-Crystalline Solids* 145:207-210 (1992)	
	16	Hümmer et al., "Heat Transfer in Opacified Aerogel Powders," *Journal of Non-Crystalline Solids* 145:211-216 (1992)	
	17	Zeng et al., "Pore Size Distribution and Apparent Gas Thermal Conductivity of Silica Aerogel," *Transactions of the ASME* 116:756-759 (1994)	
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	19	Zeng et al., "Mean Free Path and Apparent Thermal Conductivity of a Gas in a Porous Medium," *Transactions of the ASME* 117:758-761 (1995)	

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Sheet 2 of 5

Complete if Known	
Application Number	10/645,726
Filing Date	August 21, 2003
First Named Inventor	Joseph C. Mollendorf
Group Art Unit	1775
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	20	Hashin, "Assessment of the Self Consistent Scheme Approximation: Conductivity of Particulate Composites," *J. Composite Materials* 2(3):284-300 (1968)	
	21	Benveniste, "Effective Thermal Conductivity of Composites with a Thermal Contact Resistance Between the Constituents: Nondilute Case," *J. Appl. Phys.* 61(8):2840-2843 (1987)	
	22	Ohsawa et al., "A Study of Composite Foams for Diving Suits Subjected to High Hydrostatic Pressure," *J. of Appl. Polymer Science* 23:1233-1245 (1979)	
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	28	Silicones, Inc., Product Information Sheet for P-10, 2 pp.	
	29	Cabot Corporation, Product Information Sheet for Nanogel™ Fine Particle Aerogel, 2 pp. (2002)	
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	31	Silicones, Inc., Material Safety Data Sheet for Product Name: P-10A, 2 pp. (1999)	
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	33	Silicones, Inc., Material Safety Data Sheet for Product Name: GI-245 A, 2 pp. (1998)	
	34	Silicones, Inc., Material Safety Data Sheet for Product Name: GI-245 B, 2 pp. (1998)	
	35	Silicones, Inc., Product Information Sheet for GI-245 Special Effect Silicone, 2 pp.	

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	36	Silicones, Inc., Price Sheet for RTV-2 Silicone Rubber, 1 page (1997)	
	37	Silicones, Inc., Product Information Sheet for GI-300 Series Silicone Rubber, 2 pp.	
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	40	Silicones, Inc., Product Information Sheet for GI-1120 Silicone Rubber, 2 pp.	
	41	Silicones, Inc., Product Information Sheet for GI-1110 Silicone Rubber, 2 pp.	
	42	Silicones, Inc., Product Information Sheet for GI-1040 Silicone Rubber, 2 pp.	
	43	Silicones, Inc., Product Information Sheet for GI-1100 Silicone Rubber, 2 pp.	
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	57	General Electric Company, Datasheet for LIM®6010, Liquid Silicone Rubber, 3 pp.	
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	59	General Electric Company, Datasheet for RTV400T, Translucent Silicone Moldmaking Rubber, pages 1 and 3	
	60	General Electric Compnay, Datasheet for SF96® 50, SF96® Silicone Fluids, 8 pp.	
	61	Silicones, Inc., RTV-2 Silicone Rubber Product Selection Guide, 4 pp.	
	62	Perlite Institute Inc., World Trade Organization, "Basic Facts About Perlite," 3 pp., available at http://www.perlite.org/bfacts.htm	
	63	Dow Corning Corporation, Material Safety Data Sheet for Dow Corning® 3145 RTV Adhesive/Sealant – Gray, pages 1, 3, 5, and 7 (revision date Feb. 15, 2002)	
	64	3M Performance Enhancement Sheet for 3M™ Microspheres Engineered for a Wide Choice of Unique Enhancements, 8 pp. (1998)	
	65	3M Microspheres Comparison Chart for 3M™ Scotchlite™ Glass Bubbles General Purpose Series, 3 pp.	
	66	Aspen Aerogels, Inc., Material Safety Data Sheet for ASP-USB Silica Aerogel Beads, 4 pp. (2001)	
	67	Dow Corning Corporation, Material Safety Data Sheet for Dow Corning® Q3-6611 Adhesive, Gray, pages 1, 3, 5, and 7 (revision date Jan. 22, 2002)	
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	70	3M, Cast Polyester Applications Profile, 2 pp.	
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